

7. Appendices

Appendix A: Work Breakdown Structure

This WBS is derived from an analysis of the NASA Reference Model for an NGO

1	0	Management
1	1	Report on cost/schedule/performance
1	2	Interface with Government organizations
1	3	Manage support contracts
1	4	Manage operations contract
1	5	Select and administer resident personnel
1	6	Manage and administer a visiting scientist program
1	7	Maintains proprietary procedures
1	8	Provide liaison with commercial sector
1	9	Administer commercial ventures
2	0	Grant and Finance
2	1	Assist in the evaluation and financing of entrepreneurial ventures
2	2	Analyze and support selection of proposed experiments
2	3	Analyze and support selection of technology experiments
2	4	Issue and administer Instruments of Agreement
2	5	Definition and assignment of orbital opportunities
2	6	Manages private capital funds (Trust)
2	7	Selects ventures for funding
2	8	Finances private ventures
3	0	Operations
3	1	Define orbital opportunities
3	2	Support ISS R/T operations
3	3	Perform R/T operations replanning
3	4	Provide tactical planning for operations
3	5	Maintain the Mission model
3	6	Generate utilization metrics
3	7	Manage operations of payload flight and ground systems
3	8	Develop requirements for payload operator skills/expertise
3	9	Manage payload data processing and distribution
3	10	Schedules experiments or projects
3	11	Process data and generate data products
3	12	Manage data archive
4	0	Education
4	1	Communicate benefits of orb environment to public (advocacy role)
4	2	Interface with media
4	3	Conduct and support educational programs
5	0	Systems Engineering and Development
5	1	Provide technical interface for external projects

5	2	Manage design, development, test, and integration of sponsored payload elements
5	3	Provide recommendations for space and ground system enhancements, changes
5	4	Manage physical, analytical and operation integration of payloads/experiments
5	5	Oversee and approve payload integration plans and flight personnel assignments
5	6	Develop new flight assets
5	7	Maintain ISS utilization requirements
5	8	Maintain standards
6	0	IR&D
6	1	Developing the R&D program plan
6	2	Propose and perform IR&D